Electronic Version
Stylesheet Version v1.1.1

Claims

[c1] 1. A lamp module, comprising:
a lamp holder having a structure with a curved arc surface, wherein the ends of the structure are inward converging; and
a lamp within the curved arc surface structure, wherein light from the lamp spreads out over a linear dimension larger than the length of the lamp after reflected by the curved arc surface.

[c2] 2. The lamp module of claim 1, wherein the lamp includes a fluorescent tube.

[c3] 3. The lamp module of claim 1, wherein the curved arc surface has a fixed radius of curvature.

[c4] 4. The lamp module of claim 1, wherein the curved arc surface has a variable radius of curvature.

[c5] 5. A planar light source device, comprising:
a lamp holder having a structure with a curved arc surface, where the ends of the curved arc surface structure is inwardly converging;
a lamp within the curved arc surface structure, wherein light from the lamp spreads out over a linear dimension

larger than the length of the lamp after reflected by the curved arc surface; and

a light-guiding plate attached to the lamp holder, wherein the light-guiding plate has a light-inlet surface and a light-emitting surface, the light-inlet surface faces the lamp and the lamp holder such that light from the lamp entering the light-inlet surface reaches the light-emitting surface to emerge as a planar light source.

[c6] 6. The planar light source device of claim 5, wherein the lamp includes a fluorescent tube.

[c7] 7. The planar light source device of claim 5, wherein the curved arc surface has a fixed radius of curvature.

[c8] 8. The planar light source device of claim 5, wherein the curved arc surface has a variable radius of curvature.

[c9] 9. The planar light source device of claim 5, wherein the light-guiding plate may further include a plurality of reflecting surfaces located just external to the light-inlet surface and the light-emitting surface.